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## In the claims

1. (cu	rrently amended) A method comprising:
det	termining at least one of a temperature and a firing resistance of a thermal fluid-ejection
nozzle as the fluid-ejection nozzle is fired, comprising one or more of:	
	determining a firing resistance profile over voltage as the fluid-ejection nozzle is
fired;	
	measuring the firing resistance of the fluid-ejection nozzle over time and indirectly
measuring the temperature of the fluid-nozzle as proportional to the firing resistance of the fluid-	
ejection nozzle;	
	indirectly measuring the temperature and the firing resistance of the fluid-ejection
nozzle by determining a voltage of the fluid-ejection nozzle over time; and,	
det	termining whether the fluid-ejection nozzle ejected fluid upon firing based on the at least
one of the temperature and the firing resistance of the fluid-ejection nozzle.	

- 2. (original) The method of claim 1, wherein determining the at least one of the temperature and the firing resistance of the fluid-ejection nozzle comprises determining at least one of a temperature profile and a firing resistance profile over time as the fluid-ejection nozzle is fired.
- 3. (original) The method of claim 2, wherein determining whether the fluid-ejection nozzle ejected fluid upon firing comprises:

comparing the at least one of the temperature profile and the firing resistance profile to a predetermined profile of a clogged fluid-ejection nozzle and a predetermined profile of an unclogged fluid-ejection nozzle;

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where the at least one of the temperature profile and the firing resistance profile match the predetermined profile of the clogged fluid-ejection nozzle, concluding that the fluid-ejection nozzle failed to eject the fluid upon firing; and,

where the at least one of the temperature profile and the firing resistance profile match the predetermined profile of the unclogged fluid-ejection nozzle, concluding that the fluid-ejection nozzle ejected the fluid upon firing.

## 4. (cancelled)

5. (currently amended) The method of claim [[4]] 1, wherein determining whether the fluidejection nozzle ejected fluid upon firing comprises:

comparing the firing resistance profile to a predetermined profile of a clogged fluidejection nozzle and a predetermined profile of an unclogged fluid-ejection nozzle;

where the firing resistance profile matches the predetermined profile of the clogged fluidejection nozzle, concluding that the fluid-ejection nozzle failed to eject the fluid upon firing; and,

where the firing resistance profile matches the predetermined profile of the unclogged fluid-ejection nozzle, concluding that the fluid-ejection nozzle ejected the fluid upon firing.

- 6. (original) The method of claim 1, wherein determining at least one of the temperature and the firing resistance of the fluid-ejection nozzle comprises measuring the temperature of the fluid-ejection nozzle over time.
- 7. (original) The method of claim 6, wherein determining whether the fluid-ejection nozzle ejected fluid upon firing comprises:

determining a transition temperature of the fluid-ejection nozzle of fluid nucleation based on the temperature of the fluid-ejection nozzle;

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determining whether a time at which the transition temperature of the fluid-ejection nozzle occurs exceeds a threshold; and,

where the time at which the transition temperature occurs exceeds the threshold, concluding that the fluid-ejection nozzle failed to eject the fluid upon firing; and, otherwise concluding that the fluid-ejection nozzle ejected the fluid upon firing.

- 8. (cancelled)
- 9. (currently amended) The method of claim [[8]] 1, wherein determining whether the fluid-ejection nozzle ejected fluid upon firing comprises:

determining whether the firing resistance of the fluid-ejection nozzle at a predetermined time after firing exceeds a threshold;

where the firing resistance at the predetermined time after firing exceeds the threshold, concluding that the fluid-ejection nozzle failed to eject the fluid upon firing; and, otherwise concluding that the fluid-ejection nozzle ejected the fluid upon firing.

- 10. (currently amended) The method of claim [[8]] 1, wherein determining whether the fluid-ejection nozzle ejected fluid upon firing comprises determining refill time of a chamber of the fluid-ejection nozzle after two or more firing pulses and concluding that the fluid-ejection nozzle failed to eject the fluid upon firing where the refill time is greater than a threshold.
- 11. (cancelled)
- 12. (currently amended) The method of claim [[11]] 1, wherein determining whether the fluid-ejection nozzle ejected fluid upon firing comprises:

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determining whether the voltage of the fluid-ejection nozzle at a predetermined time after firing exceeds a threshold;

where the voltage at the predetermined time after firing exceeds the threshold, concluding that the fluid-ejection nozzle failed to eject the fluid upon firing; and,

otherwise concluding that the fluid-ejection nozzle ejected the fluid upon firing.

- 13. (original) The method of claim 1, where the fluid-ejection nozzle is an inkjet-printing nozzle and the fluid is ink.
- 14. (original) A computer-readable medium having a computer program stored thereon to perform a method comprising:

determining a firing resistance profile of a thermal fluid-ejection nozzle over voltage as the fluid-ejection nozzle attempts to eject fluid;

comparing the firing resistance profile to a predetermined profile of a clogged fluidejection nozzle and a predetermined profile of an unclogged fluid-ejection nozzle;

where the firing resistance profile matches the predetermined profile of the clogged fluidejection nozzle, determining that the fluid-ejection nozzle failed to eject the fluid; and,

where the firing resistance profile matches the predetermined profile of the unclogged fluid-ejection nozzle, determining that the fluid-ejection nozzle ejected the fluid.

- 15. (original) The medium of claim 14, where the fluid-ejection nozzle is an inkjet-printing nozzle and the fluid is ink.
- 16 (original) A computer-readable medium having a computer program stored thereon to perform a method comprising:

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measuring a temperature of a fluid-ejection nozzle over time as the fluid-ejection nozzle attempts to eject fluid;

determining a transition temperature of the fluid-ejection nozzle of fluid nucleation based on the temperature of the fluid-ejection nozzle as measured over time;

determining whether a time at which the transition temperature of the fluid-ejection nozzle occurs exceeds a threshold;

where the time at which the transition temperature occurs exceeds the threshold, concluding that the fluid-ejection nozzle failed to eject the fluid; and,

otherwise concluding that the fluid-ejection nozzle ejected the fluid.

- 17. (original) The medium of claim 16, where the fluid-ejection nozzle is an inkjet-printing nozzle and the fluid is ink.
- 18. (original) A computer-readable medium having a computer program stored thereon to perform a method comprising:

determining a voltage of a fluid-ejection nozzle over time as the fluid-ejection nozzle attempts to eject fluid;

determining whether the voltage of the fluid-ejection nozzle at a predetermined time after the fluid-ejection nozzle began to attempt to eject the fluid exceeds a threshold;

where the voltage at the predetermined time exceeds the threshold, concluding that the fluid-ejection nozzle failed to eject the fluid; and,

otherwise concluding that the fluid-ejection nozzle ejected the fluid.

19. (original) The medium of claim 18, where the fluid-ejection nozzle is an inkjet-printing nozzle and the fluid is ink.

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20. (original) A thermal fluid-ejection device comprising:

at least one thermal fluid-ejection mechanism, each fluid-ejection mechanism having a plurality of thermal fluid-ejection nozzles; and,

a mechanism to determine whether any of the plurality of fluid-ejection nozzles of any of the at least one fluid-ejection mechanism has clogged without having to interrupt intended fluid ejection by the at least one fluid-ejection mechanism.

- 21. (original) The device of claim 20, wherein the mechanism is to determine whether any of the plurality of fluid-ejection nozzles of any of the at least one fluid-ejection mechanism has clogged by measuring a temperature of each fluid-ejection nozzle over time as the fluid-ejection nozzle is fired.
- 22. (original) The device of claim 20, wherein the mechanism is to determine whether any of the plurality of fluid-ejection nozzles of any of the at least one fluid-ejection mechanism has clogged by determining a voltage of each fluid-ejection nozzle over time as the fluid-ejection nozzle is fired.
- 23. (original) The device of claim 20, wherein each fluid-ejection mechanism is an inkjet-printing mechanism having a plurality of inkjet-printing nozzles, such that the fluid-ejection device is an inkjet-printing device.
- 24. (original) A thermal fluid-ejection device comprising:

at least one thermal fluid-ejection mechanism, each fluid-ejection mechanism having a plurality of thermal fluid-ejection nozzles; and,

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means for determining whether any of the plurality of fluid-ejection nozzles of any of the at least one fluid-ejection mechanism has clogged without having to interrupt intended fluid ejection by the at least one fluid-ejection mechanism.

25. (original) The device of claim 24, wherein each fluid-ejection mechanism is an inkjetprinting mechanism having a plurality of inkjet-printing nozzles, such that the fluid-ejection device is an inkjet-printing device.